

Voltage Variable Attenuator

RVA-3000+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 500 MHz (dB) @V+=5V
0.0	44.71
2.0	38.31
2.5	22.98
3.0	17.84
3.5	15.13
4.0	13.38
6.0	9.65
8.0	7.47
10.0	5.34
12.0	3.26
15.0	2.96
17.0	2.82

FREQ. (MHz)	ATTENUATION Vs. V CONTROL @ V+=5V (dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
	20	57.57	23.09	13.46	7.44
50	61.24	22.75	13.31	7.37	2.74
100	54.00	22.98	13.37	7.40	2.74
150	60.70	22.98	13.38	7.41	2.75
200	58.76	22.84	13.31	7.37	2.74
250	52.74	22.97	13.38	7.43	2.77
300	51.65	22.90	13.30	7.37	2.76
350	48.53	22.94	13.35	7.42	2.77
400	47.66	22.95	13.34	7.41	2.79
450	45.62	22.97	13.37	7.45	2.81
500	44.71	22.98	13.38	7.47	2.82
600	42.69	22.99	13.39	7.51	2.87
800	39.36	23.02	13.36	7.51	2.91
1000	37.26	23.09	13.41	7.63	3.08
1250	35.08	22.92	13.28	7.58	3.06
1500	33.36	23.00	13.28	7.63	3.20
1750	31.75	22.97	13.29	7.75	3.34
2000	30.47	22.90	13.30	7.85	3.49
2250	29.05	22.74	13.37	8.04	3.57
2500	28.18	22.68	13.29	7.96	3.70
2750	27.02	22.45	13.47	8.28	3.92
3000	26.13	22.14	13.41	8.18	3.94
3250	25.42	21.92	13.48	8.33	4.08
3500	25.18	21.79	13.56	8.34	4.25
3750	24.78	21.79	13.83	8.57	4.43
4000	24.39	21.83	14.18	8.83	4.66

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FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
20	12.82	14.75	14.37	13.21	14.60
50	16.31	21.53	19.36	16.32	22.47
100	17.53	26.00	20.85	16.96	28.49
150	17.71	27.36	21.23	17.13	31.48
200	17.72	27.97	21.42	17.20	33.74
250	17.80	28.38	21.52	17.27	34.75
300	17.77	28.59	21.60	17.29	36.09
350	17.81	28.80	21.59	17.29	36.84
400	17.75	28.65	21.74	17.39	36.78
450	17.74	28.60	21.82	17.45	37.07
500	17.63	28.28	21.99	17.57	36.70
600	17.30	27.39	22.58	17.93	35.30
800	16.82	26.17	23.33	18.33	34.04
1000	15.63	23.19	26.42	19.97	28.85
1250	15.07	22.37	27.42	20.28	28.54
1500	14.28	20.95	29.03	21.01	25.33
1750	13.54	19.65	27.77	20.93	22.78
2000	13.26	19.34	25.38	19.94	21.49
2250	13.30	19.57	23.13	18.75	21.15
2500	13.66	20.42	21.84	18.07	21.94
2750	14.31	22.26	21.31	17.96	24.64
3000	15.24	25.71	21.02	18.19	30.48
3250	15.84	29.86	21.21	19.03	34.32
3500	15.91	28.30	20.77	19.36	25.98
3750	15.46	24.00	20.19	19.63	22.19
4000	14.82	21.37	19.69	19.68	20.51

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FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
20	12.83	14.78	14.41	13.25	14.62
50	16.35	21.64	19.50	16.41	22.57
100	17.59	26.39	21.07	17.07	28.95
150	17.79	27.95	21.43	17.21	32.44
200	17.80	28.64	21.54	17.22	35.66
250	17.91	29.22	21.57	17.24	37.61
300	17.87	29.37	21.57	17.21	40.47
350	17.90	29.54	21.56	17.20	42.95
400	17.92	29.60	21.56	17.20	45.52
450	17.94	29.69	21.51	17.17	49.04
500	17.90	29.52	21.55	17.18	51.39
600	17.62	28.55	21.79	17.33	53.18
800	17.46	28.34	21.71	17.20	41.04
1000	16.51	25.75	23.39	18.10	49.25
1250	16.27	25.69	23.00	17.75	32.78
1500	15.61	24.16	23.38	17.96	27.37
1750	14.93	22.63	23.28	18.00	23.76
2000	14.70	22.37	22.33	17.58	21.85
2250	14.73	22.43	20.90	16.91	20.91
2500	15.15	22.97	19.56	16.31	21.04
2750	16.22	24.90	18.37	15.80	22.38
3000	18.02	28.35	17.43	15.50	24.52
3250	19.98	30.04	16.79	15.43	24.72
3500	21.24	25.06	15.82	15.02	21.69
3750	19.65	20.56	14.95	14.76	19.75
4000	16.94	17.83	14.39	14.74	18.68

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Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=5V (dBm)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
30	36.14	33.45	38.61	39.72	50.35
50	38.85	35.98	40.63	43.27	55.16
100	43.60	39.74	44.40	48.10	54.28
200	49.36	46.05	51.83	55.07	56.78
300	53.49	48.35	54.52	59.40	57.52
400	53.61	50.55	57.51	63.18	55.69
500	53.83	49.96	58.38	59.78	56.29
600	53.19	49.87	55.94	57.34	55.53
700	53.77	49.76	54.52	54.83	56.75
800	55.94	50.56	55.00	55.10	58.50
900	57.39	52.35	60.62	57.97	56.36
1000	57.86	52.49	61.90	60.51	57.14
1100	60.47	51.64	62.28	60.94	57.93
1200	56.25	51.14	59.58	58.06	60.16
1300	55.91	51.15	58.40	61.73	56.12
1400	56.15	53.16	56.10	55.34	55.44
1500	58.07	51.77	60.85	57.88	55.17
1600	59.81	51.93	62.11	59.28	57.06
1700	59.95	51.38	58.03	59.22	62.12
1800	57.10	52.62	59.30	55.79	57.32
1900	55.84	52.36	57.15	56.66	57.79
2000	55.11	51.84	58.36	58.76	57.31
2100	54.47	50.74	57.43	61.60	57.96
2200	55.37	50.26	59.01	61.39	60.49
2300	56.18	50.42	58.40	60.13	60.06
2400	57.99	50.13	59.23	58.60	60.73
2500	61.39	50.66	57.06	60.28	61.46
2600	56.44	49.89	56.85	60.41	59.87
2700	57.70	50.02	55.83	57.52	59.33
2800	59.03	50.63	56.13	57.36	61.10
2900	57.93	50.43	54.99	55.45	60.37
3000	55.00	50.16	54.20	55.66	57.35
3200	54.72	49.69	55.55	56.05	56.29
3400	53.33	52.80	53.85	52.30	54.92
3600	50.51	53.35	50.92	50.07	52.40
3800	51.14	51.35	54.63	56.27	55.24
4000	49.72	48.49	53.13	55.09	53.40

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Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V				
	(deg)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
20	54.09	10.62	13.03	15.69	15.46
100	96.53	14.59	13.74	13.27	12.62
150	113.22	19.38	18.30	17.49	16.67
250	131.47	30.92	28.71	27.14	25.87
300	135.20	36.25	33.78	31.99	30.60
350	144.50	42.54	39.31	37.09	35.44
400	149.18	48.25	44.70	42.18	40.32
450	155.66	54.43	50.27	47.45	45.20
500	160.85	60.24	55.57	52.36	50.14
600	171.61	71.72	66.11	62.35	59.73
800	193.51	96.00	88.07	83.06	79.69
1000	215.35	120.34	110.56	104.54	100.40
1250	239.19	149.71	137.44	130.34	124.98
1500	268.06	180.02	164.12	155.55	149.81
1750	295.42	209.89	191.17	181.73	175.02
2000	324.34	240.50	217.56	206.94	200.35
2250	351.76	270.25	244.41	233.46	225.91
2500	377.19	299.30	270.47	258.75	250.16
2750	403.86	329.07	296.68	284.45	276.07
3000	427.90	357.58	323.67	311.12	301.16
3250	452.39	384.82	347.90	335.07	325.53
3500	474.80	411.46	374.34	361.42	350.95
3750	500.84	438.25	397.94	384.52	374.83
4000	525.12	466.05	424.12	410.14	400.00

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